

SUMIPEX® MHN

PMMA

Sumitomo Chemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	2.5	g/10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at break	76	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus, 23°C	3100	MPa	ISO 178
Charpy notched impact strength, +23°C	1.4	kJ/m ²	ISO 179/1eA
Rockwell hardness	M 100	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	101 ^[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, B	109	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10

ann.: annealed

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	20	kV/mm	IEC 60243-1

Optical properties	Value	Unit	Test Standard
ISO Data			
Haze	0.5	-	ISO 14782
Luminous transmittance	92	%	ISO 13468-1, -2

Other properties	Value	Unit	Test Standard
Water absorption	0.3	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather, Transparent

Features

Light Guiding

Chemical Resistance

Alkali Resistance, General Chemical Resistance, Oil Resistance

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific